

## Claims

What is claimed is:

1. A centrifuge comprising:
  - a. a central guide shaft,
  - b. a plurality of bobbins located around the guide shaft and rotatable therearound, and
  - c. a support member located around the bobbins and providing a substantially cylindrical inner surface around which the bobbins can rotate and operable to support the bobbins.
2. A centrifuge according to claim 1 wherein the support member is freely rotatable.
3. A centrifuge according to claim 1 wherein the support member is a drum.
4. A centrifuge according to claim 3 wherein the support member is freely rotatable.
5. A centrifuge according to claim 1 wherein the central guide shaft is a rotor.
6. A centrifuge according to claim 5, wherein the rotor is coupled to a drive to thereby allow driving of the bobbins.
7. A centrifuge according to claim 1 wherein the support member is rotatable, and the centrifuge further comprises a drive unit coupled to the support member to rotate the support member, whereby the bobbins may be rotated.

8. A centrifuge according to claim 1 wherein the bobbins are located on plane bearings.
9. A centrifuge according to claim 1 further comprising fluid-carrying passages on or within at least one of the bobbins.
10. A centrifuge comprising:
- a. a guide shaft,
  - b. two or more bobbins orbitally arranged about the guide shaft, and
  - c. a support member having a substantially cylindrical inner surface whereupon the bobbins rotate.
11. A centrifuge according to claim 10 wherein the support member is freely rotatable drum.
12. A centrifuge according to claim 10 wherein the central guide shaft is a rotor coupled to a drive to thereby allow driving of the bobbins.
13. A centrifuge according to claim 10 wherein the bobbins are located on plane bearings.
14. A centrifuge according to claim 10 further comprising fluid-carrying passages on or within at least one of the bobbins.

15. A centrifuge comprising:

- a. a guide shaft;
- b. two or more bobbins riding on the guide shaft, each bobbin bearing a fluid-carrying passage; and
- c. a support member having a substantially cylindrical inner surface whereupon the bobbins ride.

16. A centrifuge according to claim 15 wherein the support member is freely rotatable drum.

17. A centrifuge according to claim 15 wherein the bobbins are located on plane bearings.